Notice of Allowability	Application No.	Applicant(s)	
	09/576,648	YUNG ET AL.	
	Examiner	Art Unit	
	Marcos L Torres	2687	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *9-20-2004*.

2. ☒ The allowed claim(s) is/are *2-8 and 15-22*.

3. ☒ The drawings filed on *5-22-2000* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 9122004
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Georgann S. Grunebach on September 12, 2004.

The application has been amended as follows:

2. (Currently Amended) A mobile wireless communication system comprising: a plurality of individual transponding nodes; a plurality of individual resource cells each associated with a particular one of said plurality of transponding nodes and one of a plurality of available CDMA codes; a plurality of mobile user terminals, each of which is assigned to operate in one or more of said plurality of individual resource cells; wherein each of said plurality of individual resource cells is assigned to at most one of said plurality of mobile user terminals at any one time; and a central processing hub, which establishes links to one or more of said mobile user terminals through one or more of said plurality of transponding nodes wherein the specific transponding node and codes used to complete each of said links is determined by the resource cells respectively assigned to the plurality of the mobile user terminals; wherein said central processing hub pre-processes transmission signals for forward link transmission such that the transmission signals are radiated with compensating time delays to an intended one of

said plurality of mobile user terminals that coherently receives said signals; wherein said central processing hub post-processes received signals to introduce compensating time delays such that said received signals from a particular one of the plurality of mobile user terminals may be coherently processed.

9-14. (Canceled)

15. (Currently Amended) A mobile wireless communication system comprising: a plurality of individual transponder nodes, each having an established link with a ground hub; a plurality of individual resource cells each associated with at least one of said plurality of transponder nodes and at least one of a plurality of codes; a plurality of mobile user terminals having an established link said ground hub, each of the plurality of mobile user terminals being assigned one or more of said plurality of individual resource cells in code-platform space wherein at least a first mobile user terminal of the plurality of mobile user terminal is assigned first resource cells from the plurality of individual resource cells corresponding to more than one transponder so that the signals generated from the transponder nodes are coherently added together at the first mobile user terminal; and a central processing hub, which establishes links to one or more of said mobile user terminals through one or more of said plurality of transponding nodes wherein the specific transponding node and codes used to complete each of said links is determined by the resource cells respectively assigned to the plurality of the mobile user terminals; wherein said central processing hub pre-processes transmission signals for forward link transmission such that the transmission signals are radiated with compensating time delays to an intended one of said plurality of mobile user terminals

that coherently receives said signals; wherein said central processing hub post-processes received signals to introduce compensating time delays such that said received signals from a particular one of the plurality of mobile user terminals may be coherently processed.

Allowable Subject Matter

2. Claims 2-8 and 15-22 are allowed.

3. The following is an examiner's statement of reasons for allowance: A mobile wireless communication system comprising: a plurality of individual transponder nodes, each having an established link with a ground hub; a plurality of individual resource cells each associated with at least one of said plurality of transponder nodes and at least one of a plurality of codes; a plurality of mobile user terminals having an established link said ground hub, each of the plurality of mobile user terminals being assigned one or more of said plurality of individual resource cells in code-platform space wherein at least a first mobile user terminal of the plurality of mobile user terminal is assigned first resource cells from the plurality of individual resource cells corresponding to more than one transponder so that the signals generated from the transponder nodes are coherently added together at the first mobile user terminal; and a central processing hub, which establishes links to one or more of said mobile user terminals through one or more of said plurality of transponding nodes wherein the specific transponding node and codes used to complete each of said links is determined by the resource cells respectively assigned to the plurality of the mobile user terminals; wherein said central processing hub pre-processes transmission signals for forward link transmission such

that the transmission signals are radiated with compensating time delays to an intended one of said plurality of mobile user terminals that coherently receives said signals; wherein said central processing hub post-processes received signals to introduce compensating time delays such that said received signals from a particular one of the plurality of mobile user terminals may be coherently processed. Have not been found or fairly suggested in the prior art search.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcos L Torres whose telephone number is 703-305-1478. The examiner can normally be reached on 8:00am-5:30pm alt. Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester G Kincaid can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marcos L Torres
Examiner
Art Unit 2687

MIt

10/14/04
LESTER G. KINCAID
PRIMARY EXAMINER